·	Application No.	Applicant(s)
•		
Notice of Allowability	10/655,587 Examiner	CHINDA, AKIRA Art Unit
	Lammer	Artonic
	Kiesha L. Rose	2822
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>4/27/05</u> .		
2. The allowed claim(s) is/are 1-9.		
3. \boxtimes The drawings filed on <u>05 September 2003</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5: A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	•
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I		
Attachment(s) 1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ⊠ Examiner's Amendi	te .
Paper No./Mail Date		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	ent of Reasons for Allowance
		Michael Trinh Primary Examiner

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Biladeou on July 12, 2005.

The application has been amended as follows:

Claims

7. A method of making a wiring board, comprising the steps of: forming an opening at a predetermined position in an insulating substrate; forming a wiring pattern on the surface of said insulating substrate such that one end of said opening is shut by said wiring pattern to form the bottom of said opening; forming a thin film conductor on the surface of said wiring pattern and at the bottom of said opening; and forming an embedded conductor layer in said opening and on the surface of said thin film conductor formed at the bottom of said opening; wherein thin film conductor is formed between said wiring pattern and said embedded conductor layer, wherein said thin film conductor includes a gold plating layer formed on the surface, and said embedded conductor layer is of a conductor that has a rate of solution to tin or an alloy including tin lower than that of gold.

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Allowable Subject Matter

Claims 1-9 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-3 are allowable because prior art does not show alone or in combination along with the limitations of the independent claims such as the embedded conductor layer is formed between the thin film conductor and external connection terminal.

Claims 4-9 are allowable because prior art does not show alone or in combination along with the limitations of the independent claims such as the thin film conductor formed between wiring (wiring pattern) and embedded conductor layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion :

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on M-F 8:30-6:00 off 2nd Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLR

Michael Trinh
Primary Examiner
Act SPE

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